

**METHODS AND DEVICES FOR PLACING A CONDUIT
IN FLUID COMMUNICATION WITH A TARGET VESSEL
AND A SOURCE OF BLOOD**

ABSTRACT OF THE DISCLOSURE

5 Devices and methods for placing a conduit in fluid communication with a
target vessel to communicate the target vessel with a source of blood. A conduit is coupled to
the target vessel by first and second securing components that compress or sandwich the
vessel wall. The conduit may be preshaped to assume a desired orientation when in an
unbiased state, for example, to allow the conduit to be deformed during delivery and then
10 regain its desired orientation once deployed. The first and second securing components may
be any shape but are preferably elongated in the direction of the vessel axis, e.g., elliptical or
rectangular, such that a minimum amount of material is present at the outlet to closely
approximate the cross-sectional area of the native target vessel. The securing components do
not significantly occlude the target vessel lumen, may be secured to the vessel wall in non-
15 penetrating fashion, and provides a fluid-tight seal around the attachment site. The conduit
may comprise tissue, synthetic material, etc., and one or both securing components may be
constructed or provided with means for attaching an autologous vessel.

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